

Memorandum

To: MELISSA JONES
Executive Director

Date: August 5, 2010

Telephone: (916) 654-5013

From: **California Energy Commission**
1516 Ninth Street
Sacramento CA 95814-5512

VALERIE T. HALL, Deputy Director
Efficiency and Renewable Energy Division

Subject: eQUEST 3.64 and D2 Comply 3.64. Possible approval of eQUEST and D2comply. eQUEST and D2 Comply are computer simulation programs used to demonstrate compliance with the *2008 Building Energy Efficiency Standards for Nonresidential Buildings*.

Summary of Item

The *2008 Building Energy Efficiency Standards* were adopted by the California Energy Commission on April 23, 2008, and were approved for publication by the California Building Standards Commission on September 11, 2008 with an effective date of January 1, 2010. The compliance approaches to these Standards include the prescriptive and performance methods. Historically the building industry has in most cases, chosen to demonstrate compliance through the performance approach by using compliance software to show that each proposed building meets the energy budget established for that building.

James J. Hirsch & Associates has updated eQUEST and D2 Comply to include the 2008 Building Energy Efficiency modeling requirements for nonresidential buildings and submitted the programs for Committee approval. Staff has reviewed James J. Hirsch & Associates' application and found that the computer programs pass all required tests defined in the *2008 Nonresidential Alternative Calculation Method Approval Manual*.

Project Manager

Rob Hudler, High Performance Buildings and Standards Development Office

Summary of Staff Position

Staff recommends that the Energy Commission approve eQUEST 3.64 and D2 Comply 3.64 for use in demonstrating compliance with the *2008 Building Energy Efficiency Standards for Nonresidential Buildings*. Staff recommends that this action become effective August 25, 2010.

Melissa Jones
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Business Meeting Participants

Craig Hoellwarth and Sabaratnam Thamilseran, High Performance Buildings and Standards Development Office

Commission Action Requested

Approve eQUEST and D2 Comply for use in demonstrating compliance with the *2008 Building Energy Efficiency Standards for Nonresidential Buildings*.

Original Signed By:

VALERIE T. HALL, Deputy Director
Efficiency and Renewable Energy Division

RESOLUTION NO: _____

STATE OF CALIFORNIA
STATE ENERGY RESOURCES
CONSERVATION AND DEVELOPMENT COMMISSION

RESOLUTION: APPROVAL OF eQUEST 3.64 and D2 Comply 3.64

WHEREAS, The California Energy Commission is statutorily required to review and approve private software programs which meet all of the requirements and tests defined in the Nonresidential Alternative Calculation Method Approval Manual for showing compliance with the *2008 Building Energy Efficiency Standards for Nonresidential Buildings*; and

WHEREAS, the *2008 Building Energy Efficiency Standards* and *Nonresidential Alternative Calculation Method Approval Manual* were adopted by the Energy Commission on April 23, 2008 and were approved for publication by the California Building Standards Commission on September 11, 2008 with an effective date of January 1, 2010; and

WHEREAS, the Energy Commission has reviewed eQUEST 3.64 & D2 Comply and found that the results generated by eQUEST & D2 Comply pass all testing requirements in the *2008 Nonresidential Alternative Calculation Method Approval Manual*;

THEREFORE BE IT RESOLVED, that, on August 25, 2010, the Energy Commission approves eQUEST 3.64 and D2 Comply 3.64 for immediate use in demonstrating compliance with the *2008 Building Energy Efficiency Standards for Nonresidential Buildings* effective August 25, 2010.

Dated: _____

STATE ENERGY RESOURCES
CONSERVATION AND DEVELOPMENT COMMISSION

Karen Douglas
Chairman